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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

02/17/2004

James W McKee Fay Sharpe Fagan Minnich & McKee 1100 Superior Avenue 7th Floor Cleveland, OH 44114-2518 EXAMINER

SCHILLINGER, LAURA M

PAPER NUMBER

ART UNIT

DATE MAILED: 02/17/2004

 APPLICATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
 ATTORNEY DOCKET NO.
 CONFIRMATION NO.

 10/018.867
 02/27/2002
 Timothy James Regan
 UDL 2 0016
 8474

TITLE OF INVENTION: METHOD OF MODIFYING AN INTEGRATED CIRCUIT

	APPLN, TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
_	nonprovisional	YES	\$665	\$0	\$665	05/17/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

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- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

 Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

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7	590 02/17/2004			papers, Each addition	nal paper, such as an assignm ate of mailing or transmission.	ent or formal drawing, mus	
James W McKee							
	Minnich & McKee			I hereby certify that	Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the Uni States Postal Service with sufficient postage for first class mail in an envelo		
1100 Superior Ave				transmitted to the USPTO, on the date indicated below.			
7th Floor							
Cleveland, OH 441	114-2518					(Depositor's name)	
						(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED	INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/018,867	02/27/2002		Timothy Jam	es Regan	UDL 2 0016	8474	
TITLE OF INVENTION: M	METHOD OF MODIFYING	AN INTEGRATEI	D CIRCUIT				
APPLN. TYPE	SMALL ENTITY	ISSUE FI	EE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	YES	\$665		\$0	\$665	05/17/2004	
EXAN	INER	ART UN	пт	CLASS-SUBCLASS			
SCHILLINGE	ER, LAURA M	2813		438-014000	_		
 I. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). □ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. □ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/17; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 			names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.				
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	assignee category or catego				corporation or other private g	roup entity 🚨 governmen	
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Advance Order - # 01	Copies		Deposit Accou	int Number	(enclose an extra	copy of this form).	
Director for Patents is reque	sted to apply the Issue Fee a	nd Publication Fee	(if any) or to re	e-apply any previously paid	issue fee to the application id-	entified above.	
(Authorized Signature)		(Date)	-	T T		10000	
NOTE; The Issue Fee an other than the applicant; interest as shown by the re	d Publication Fee (if requir a registered attorney or ag cords of the United States Pa	ed) will not be accent; or the assigned atent and Trademar	cepted from an ee or other par k Office.	nyone ty in		·	
obtain or retain a benefit application. Confidentialit estimated to take 12 minu completed application for	ation is required by 37 CFR by the public which is to for y is governed by 35 U.S.C. I tes to complete, including g m to the USPTO. Time with the amount of time you, this burden, should be sent Office, U.S. Department SEND FEES OR COMPLE for Patents, Alexandria, Vir	ile (and by the US 22 and 37 CFR 1.1 athering, preparing	SPTO to proces 14. This collecti g, and submitting	s) an lion is g the			

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/018,867	02/27/2002	Timothy James Regan	UDL 2 0016	8474		
75	90 02/17/2004	2004		INER		
James W McKee			SCHILLINGE	SCHILLINGER, LAURA M		
Fay Sharpe Fagan I 1100 Superior Ave			ART UNIT	PAPER NUMBER		
7th Floor			2813			
Cleveland, OH 441	14-2518		DATE MAILED: 02/17/2004	1		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)	l	
	10/018,867	REGAN, TIMOTHY	REGAN, TIMOTHY JAMES	
, Notice of Allowability	Examiner	Art Unit		
	Laura M Schillinger	2813		
The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL- NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	IS (OR REMAINS) CLOSED in to 85) or other appropriate communing RIGHTS. This application is sub-	his application. If not include ication will be mailed in due of	ed course, THIS	
1. X This communication is responsive to 11/13/2003.			•	
2. The allowed claim(s) is/are 1.2.5-15 and 19-32.				
3. \boxtimes The drawings filed on <u>27 February 2002</u> are accepted b	y the Examiner.			
4. Acknowledgment is made of a claim for foreign priority a) All b) Some* c) None of the: 1. Certified copies of the priority documents had: 2. Certified copies of the priority documents had: 3. Copies of the certified copies of the priority International Bureau (PCT Rule 17.2(a)). * Certified copies not received:	ave been received. ave been received in Application	No	ion from the	
Applicant has THREE MONTHS FROM THE "MAILING DAT noted below. Failure to timely comply will result in ABANDOI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be sull INFORMAL PATENT APPLICATION (PTO-152) which of the substitution	NMENT of this application. bmitted. Note the attached EXAN	IINER'S AMENDMENT or N		
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") n	. , , .	colaration is delicitie.		
(a) including changes required by the Notice of Draftsp		PTO-948) attached		
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date	<u></u> ;			
(b) ☐ including changes required by the attached Examin Paper No./Mail Date	er's Amendment / Comment or in	the Office action of		
Identifying indicia such as the application number (see 37 CFI each sheet. Replacement sheet(s) should be labeled as such i			back) of	
 DEPOSIT OF and/or INFORMATION about the de attached Examiner's comment regarding REQUIREMEN 			ote the	
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	-	rmal Patent Application (PTC	≻ 152)	
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SI	Paper No./Ma	ail Date mendment/Comment		
Paper No./Mail Date	<i>"</i>			
 Examiner's Comment Regarding Requirement for Deposition of Biological Material 	9. Other	ALEMENT OF REASONS FOR Allow ALEMHITE HEAD, JR. SORY PATENT EXAMINER HOLOGY CENTER 2800	wallee	

Application/Control Number: 10/018,867

Art Unit: 2813

DETAILED ACTION

This Office Action is in response to Amendment dated 11/13/2003.

Allowable Subject Matter

Claims 1-2, 5-15, 19-32 are allowed.

The following is a statement of reasons for the indication of allowable subject matter:

In reference to claim 1, DiGiacomo teaches a method including the steps of:

Calculating a plurality of scaling ratios (Col.8, lines:: 30-45 and Col.8, line: 60 through Col.9, line: 15).

Selecting a scaling factor that is equal to or greater than the largest of the predetermined scaling ratios (Col.9, lines: 1-22);

Scaling the entire circuit represented by the data model with the scaling factor (Col.9, lines: 45-68, and

Adjusting each layer in the circuit for functionality and design rule compliance (Col.10, lines: 20-35 se also Col.11, lines: 20 through Col.15, line: 20- providing detailed calculations for design rules).

However, as Applicant points out in his 11/13/2003, DiGiacomo fails to explicitly teach nor suggest calculating a plurality of scaling ratios including geometry width and spacing for each routing layer, the via size ratio in each via layer and the transistor geometry ratio. IN contrast, DiGiacomo teaches to determine input/ output ratios which do not encompass specific

transistor geometries as claimed by the Applicant. Consequently, Applicant's claims 1-2, 5-15 are deemed to be allowable over prior art.

Claim 19 is the merely the independent form of claims 9 and 1 (originally presented). Claim 9 (dependent upon claim 1) was indicated as containing allowable subject matter in the Examiner's Non-Final Office Action dated 5/12/2003. Claims 20-32 depend from claim 19 and are therefore also considered to be allowable. The reasons for allowance are therefore clear upon the record.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura M Schillinger whose telephone number is (703) 308-6425. The examiner can normally be reached on M-T, R-F 7:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl W Whitehead, Jr. can be reached on (703) 308-4940. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/018,867

Art Unit: 2813

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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LMS

February 6, 2003